

# Waste Heat Recovery Boiler (WHRB)



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# Waste Heat Recovery Boiler (WHRB)

**Waste Heat Recovery Boilers (WHRB)** are among the key products of MAPNA Boiler, which are offered to various industries based on the technical expertise in design and construction of **Heat Recovery Steam Generators (HRSG)** to capture and reuse waste heat from industrial processes.

The recovered heat in these boilers can be used to produce hot water, saturated steam, superheat steam and even steam power generation cycle.



Due to the diversity of energy sources in terms of temperature, flow rate, suspended particles, analyses and continuity of smoke flow, **WHRBs** can be custom-designed and manufactured in various sizes and different specifications in a unique and exclusive way to meet specific requirements.

In some cases, exhaust gases from industrial processes contain suspended particles and different pollutants. For these scenarios, **WHRB** packages are equipped with online cleaning systems, and various requirements are considered in the design of their thermal surfaces and the selection of appropriate materials.

In addition to reducing fuel consumption by utilizing recovered energy, a critical benefit of **WHRB** systems is their role in lowering carbon dioxide emissions in industrial facilities—an increasingly important goal aligned with international environmental commitments.

Considering the ever-increasing cost of energy and the growing importance of energy efficiency, the maximum usage of fossil fuel energy is a vital issue in the production of competitive products. Currently, substantial amounts of energy are discharged into the environment as waste heat through exhaust systems in various industrial processes. This energy can be recovered and used for wide range of applications.

Different Iron and steelmaking units, along with oil and gas, petrochemical, cement, and chemical industries, especially equipment such as furnaces, reformers, preheaters, and cooling systems have significant potential for using waste heat recovery boilers.

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